

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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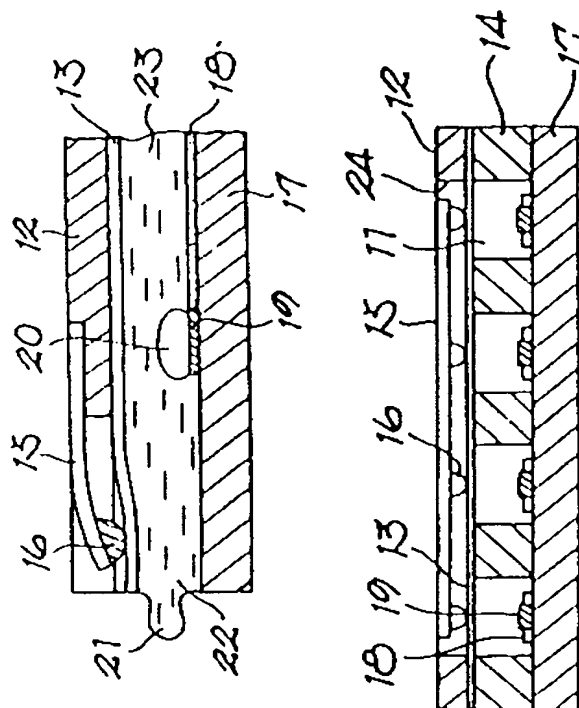
APPLICATION DATE : 26-07-84  
APPLICATION NUMBER : 59156374

APPLICANT : CANON INC;

INVENTOR : HIROSE YOSHIHIKO;

INT.CL. : B41J 3/04 B41J 3/04

TITLE : LIQUID JET RECORDING METHOD  
AND RECORDING HEAD USED  
THEREIN



ABSTRACT : PURPOSE: To provide the titled recording head having good response and capable of faithfully reproducing the gradient of an original, constituted by making the cross-sectional area of a recording solution passage variable in the downstream side of the recording solution passed from an energy generator for emitting liquid droplets.

CONSTITUTION: Each projection 16 is provided to the surface of a piezoelectric element 15 so as to be opposed to the elastic film 13 in the vicinity of the free end of said piezoelectric element 15 in opposed relation to each liquid passage 1 and the piezoelectric element 15 receives bending deformation by the input of a gradation signal to reduce the caliber of each emitting orifice 22. By changing the level of energy applied to the piezoelectric element 15, the diameter of each liquid droplet of the recording solution emitted and frown from the emitting orifice 22 is changed to perform gradation recording.

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